

Eastern Arizona Amateur Radio Society

EST. 1974

www.eaars.com

INC.



facebook.com/groups/eaars

Club Address: EAARS, PO Box 398, Solomon, AZ 85551



February, 2021

JOIN EAARS on Facebook

EAARS has a presence on Facebook and you are invited to **JOIN** the page. This is a great media to quickly share news, photos and events that are EAARS related or might be interesting to the members. If you utilize "Notifications" on the EAARS Facebook page, you can receive club updates AS THEY HAPPEN.

To reach the page, please visit **facebook.**

com/groups/eaars and **JOIN** the page. You must have a Facebook account to be part of the EAARS group.



EAARS Open Repeaters

PL 141.3 unless noted otherwise

Echolink: 614350 **IRLP:** 7787

Heliograph Peak at Safford, AZ:

146.860, 440.700 Linked

146.900, 447.8250 Not Linked

Jacks Peak at Silver City, NM:

145.210 Linked

West Peak at Ft Thomas, AZ:

145.350 Access to link to network

Pinal Peak at Globe, AZ:

145.410 Linked

South Mt at Alpine, AZ:

145.270 Linked

Caballo Mt at TorC, NM:

145.470 Linked

Greens Peak at Show Low, AZ

146.700 Linked

Little Florida at Deming, NM:

147.060 Linked

Mule Mt at Bisbee, AZ:

147.080 Linked

Mt Lemmon at Tucson, AZ

147.160 Linked

Guthrie Peak at Clifton, AZ:

147.280 Linked

Gals on the Air!

EST. June 2015

Calling all Gals of any class ... Join us every Monday night for the
Gals Night Net @ 7:30 pm (AZ) on the EAARS system!

Facebook.com/groups/galsnightnet

Upcoming Events

*Would You like to see your event posted for the membership to see?
Email your information to emberfire@cox.net.*

2021

March 12-14AERC Old Pueblo Pioneer Ride
Mar 13-14 QSO Today Virtual Ham Expo
Mar 27 RST Spring Hamfest (?)
Apr 10El Tour de Tucson (?)

Did you know that you can see the Public Service Opportunities on soazhamservice.net? The events are posted by dates and who leads them. If you are interested in participating or have any questions, please feel free to contact them.

WEEKLY EAARS' NETS

Every day:

Down Under Net - 4:15 am

Weather Net - 5:30 am

Sunday:

EAARS Net - 7:00 pm

Monday:

Gals Night Net - 7:30 pm

Wednesday:

*Skywarn Net - During Monsoon, Every Wednesday at 7:30 pm,
Off Season, every third Wednesday of month at 7:30 pm*

Saturday:

*ERC (Emergency Response Communications) Net -7:45 am ,
2nd Saturday of the month (20-25 min duration)*

*All times are noted on Arizona
time, as we do not change.*

EAARS Officers and Staff

Board Officers

President	Dave Wells	N7AM
Vice President	Dan Quaintance	AF7EF
Secretary/Treasurer	Larry Griggs	N5BG

Staff

Site Trustee	Joe Montierth	K7JEM
Net Manager	Chris Buchanan	N7JND
Newsletter Editor	Angie Buchanan	N7EMB

Net Control Operators

Rick W8YBM	1st Sunday
Angie N7EMB	2nd-4th Sunday
Chris N7JND	3rd-5th Sunday

ARRL RADIO CONTESTS

February 2021

8-12 School Club Roundup
20-21 International DX - CW

For details on all ARRL contests and for non-ARRL contests,
visit <http://www.arrl.org/contest-calendar>

New EAARS Members!

CONGRATULATIONS

To our EAARS
Membership Drive
Winner of the HRO Gift
Card -

Mark W7GMO!



Michael	KM7MGM
Frank	N7KGE
Vinny	KJ7OKA
Steve	WB7OIL
Francisco	W9FCM
Jill	KG7WVW

Anthony (new call)	K7AER (was KJ7PMJ)
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Ham Radio's SuitSat Returns in Short Horror Film

ARRL - 01/25/2021

SuitSat loses its innocence in a new video short sci-fi thriller *Decommissioned*.

"Inspired by true events," the video short resurrects the 2006 spacesuit/satellite that transmitted messages on 2 meters as it circled Earth. The original SuitSat-1 project, conceived by an Amateur Radio on the International Space Station (ARISS) team, repurposed a decommissioned Russian Orlan spacesuit to function as a free-floating amateur radio transmit-only satellite.

"ARISS designed and built an antenna and radio gear that got approved for installation into the suit, and cosmonaut Valeri Tokarev and Commander Bill McArthur, KC5ACR, put SuitSat-1 into orbit at the start of a spacewalk," ARISS-US Delegate for ARRL Rosalie White, K1STO, recounted. SuitSat-1 transmitted a voice message, "This is SuitSat-1 RS0RS!" in several languages, plus telemetry and a slow-scan TV image on an 8-minute cycle as it orbited Earth.

In the 6-minute film, a SuitSat returns in the future to haunt International Space Station commander "Diaz," played by Joey Vieira. Diaz is seen taking photos from inside an observation dome on the ISS when he spies some distant space debris and radios Houston to express concern.

"If there was any cause for alarm, you know we'd see it too," Houston assures.

As the object closes in, an increasingly anxious Diaz recognizes the "debris" as SuitSat. "This is SuitSat," comes a voice on the ham radio.

"Houston, you're not gonna believe this. We're picking up transmissions on the ham radio that sound identical to the SuitSat experiment," he tells a skeptical mission control. "It's SuitSat! I'm seeing SuitSat!"

"SuitSat re-entered the atmosphere and burned up years ago," mission control responds. "It's impossible."

Decommissioned was produced by Perception Pictures and directed by Australian filmmaker Josh Tanner. He told Gizmodo that he produced the video "using the Unreal Engine technology that *The Mandalorian* used, albeit old-school rear projection, as opposed to the fancy LED wall tech they used."

SuitSat-1 — called Radioskaf or Radio Sputnik in Russian — was so successful that another unneeded Orlan spacesuit was subsequently refitted as SuitSat-2.



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Orlando HamCation Online Event and QSO Party Set



ARRL - 01/18/2021

Orlando HamCation has announced it will sponsor the HamCation QSO Party over the February 13 – 14 weekend (UTC), “to create a fun way for amateurs to celebrate the Orlando HamCation experience over the air.” The HamCation QSO Party will be a 12-hour event on HamCation weekend. HamCation 2021 was to host the ARRL National Convention, which now will take place in 2022.

“The QSO party will replicate the camaraderie and social experience of attending HamCation and provide a way to have fun on the radio, since HamCation 2021 will not be held due to COVID-19,” the HamCation QSO Party Committee said. The HamCation QSO Party will run from 1500 UTC on February 13 until 0300 UTC on February 14. It will be a CW and SSB operating event on 80, 40, 20, 15, and 10 meters. Any station may work any other station.

Categories will be High Power (more than 100 W output), Low Power (100 W output or less, but greater than 5 W), and QRP (5 W output or less). All participants will be single operators; there is no multioperator category. The exchange will be your name and state/province/country, and the outside temperature at your location. “We are including temperature at your QTH as a way of highlighting Orlando’s mild February weather,” the committee said.

Nine HamCation special event stations with 1 × 1 call signs will be on the air with combined suffixes spelling out HamCation (e.g., K4H, W4A, K4M, etc). Each contact will count as one point, and stations may be worked once on each band and mode. Entrants will report their scores on www.3830Scores.com; no logs are required. Final results will be based on the information submitted to the website.

Station guest operators must use their own call signs and submit their scores individually. Plaques and certificates will be awarded.

Virtual HamCation Set

The Orlando HamCation Special Edition online event over the February 13 – 14 weekend will take the place of what would have been the HamCation 2021 in-person show.

The online event will include youth, technology, contesting, and vendor webinar tracks. ARRL will also present two webinars on Saturday, February 13.

ARRL Member Forum at 1 PM EST, moderated by ARRL Southeastern Division Director Mickey Baker, N4MB.

Amateur Radio Emergency Service (ARES®) presentation at 3 PM EST, moderated by ARRL Director of Emergency Management Paul Gilbert, KE5ZW. The ARES presentation will include panelists from ARRL Section Emergency Coordinators in Florida.

Live, online prize drawings also are scheduled during the HamCation Special Edition online event.

YOTA Month a Success in the Americas

Courtesy of QRZ.com

Youth-operated amateur radio stations in the western hemisphere contribute 14,000+ QSOs to the worldwide special event celebrating youth in amateur radio during the month of December.

December YOTA Month 2020 was a great success in the Americas! Twenty-four operators under the age of twenty-five utilized special event callsigns to promote youth in amateur radio here in the Americas.

In the USA, four 1x1 special event callsigns were used: K8Y, K8O, K8T, and K8A (Y O T A). Twenty-four youth operators across the USA rotated these calls throughout the month of December. They made 14,699 QSOs using SSB, CW, digital modes, and satellites. This is an 11.3% increase in QSOs from their total in 2019 (12,487). Some operators used the callsigns during contests such as CWops CWTs, FT Round-up, and the RAC Winter contest.

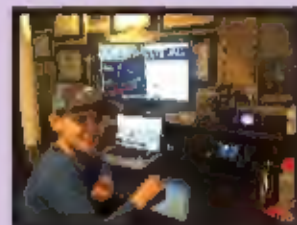
We asked USA operators for their favorite aspect of YOTA Month. Michael, W3MLJ said, "My favorite part of YOTA month was running 5 radios at once. They were all on digital modes. Running the big FT8 pileups was very fun and to see the rate of the contacts being logged was really cool." Calin, K8MTJ commented, "In general I liked making a bunch of QSOs in a short period of time. In particular, I had a really nice conversation with KC9CUK, Erich, on 40M. I also got a kick out of working ZR1ADI, South Africa, on 20M FT8."

Youth from the Americas enthusiastically spread the word about youth in amateur radio and made 14,699 QSOs in the process. The event was a great prelude for the first ever camp to be hosted in the western hemisphere, which is still planned for July 11-16, 2021.

Bryant Rascol, KG5HVO, who coordinated the efforts of the twenty-four operators and the logs for the USA stations, said, "Using lessons from YOTA Month 2019 made organizing more streamlined and flexible for our operators this year." As part of his responsibilities, Bryant also managed Logbook of the World accounts for the US stations, the QRZ.com pages for all the callsigns, maintained an operator schedule, worked with YOTA month manager Tomi, HASRT, and reported in to the YOTA camp committee in the Americas.



Audrey, KM4HUN operates SSB during a shift as K8O from the McElroy home near Atlanta, GA.



Calin, K8MTJ enjoyed his time using the K8O callsign on FT8 from his station in Columbus, OH, USA.

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Radio Contesting

Why should I do it? Is it fun?

The hobby of ham radio has a lot of different activities to participate in. Radio contesting (sometimes referred to as (radiosport) is one of those fun activities that almost anyone can enjoy. The basic objective on most radio contests is to make as many radio contacts as possible which is influenced by the scoring method used for the contest. That is, some contacts may be worth more points than other contacts and there are score "multipliers" for such things as the number of countries worked, number of states worked, etc.

There are several reasons to participate in a radio contest:

Make lots of contacts in a short period of time: Contests generate a lot of radio activity with many stations on the air. Contacts are usually very quick, which means you can work a lot of stations in a short period of time.

Compete against other radio hams for high score: Radio contests are competitions, so you can compete against the other participants (or maybe your friends) to see who gets the highest score.

Work towards operating awards: Radio contest participation can also help you achieve operating awards such as Worked All States (WAS), DX Century Club (DXCC) and CQ WPX (Worked Prefixes). You'll want to choose a contest that is set up to encourage radio contacts consistent with the award. For example, DXCC is all about working new countries so you'd want to get on the air during a DX contest.

Operating Tips...

Here are a few tips on working radio contests, assuming that you are a first time or casual contesteer.

Know The Contest Exchange: Read the rules for the radio contest to find out the contest exchange. The contest exchange is the information that is passed to complete a valid radio contact, as prescribed by the contest rules. For example, in the CQ WPX contest, the exchange is signal report and serial number. Most contesters give everyone a 59 report, so don't give or expect anything different. Serial number is just a sequential number that increments for each contact, starting with 001, then 002, 003, etc.

Know Who You Can Work: Some radio contests are set up to encourage a particular type of contact which can mean that some contacts "don't count" for contest credit. So it is important that you read the rules to understand what stations you are allowed to contact for contest credit. Otherwise, you annoy the serious contesters by calling them inappropriately. For example, in the ARRL DX Contest, US and Canadian hams only work stations from other countries, while DX stations only work US and Canada.

Search and Pounce: If you are a casual operator in a radio contest, it's best to tune around to find someone calling "CQ Contest" and then call them. This is commonly referred to as search and pounce. You can try calling CQ Contest yourself but you may find that less effective.

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Ham Radio's SuitSat Returns in Short Horror Film

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As an interesting sidebar with respect to the real SuitSat, White explained, "After the ARISS engineers calculated SuitSat-1's orbit and spin characteristics, they knew the legs and arms would have to be filled with something, so they asked the crew to stuff dirty laundry inside."

White said Decommissioned was a hit at a recent ARISS meeting. The original SuitSats were deorbited to burn up in Earth's atmosphere after their useful lives ended.

ARRL is a partner in the ARISS program, which has kept amateur radio on the air from the International Space Station for 20 years. A hallmark of the ARISS program is the scheduled ham radio contacts made by astronaut crew members with schools and student groups around the world.

YOTA Month a Success in the Americas

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Globally, over 137,000 contacts were logged using 46 callsigns, all operated by hams under the age of 26. That total surpassed last year's record number of 129,029. The USA placed second, behind Croatia, in the total number of contacts made during the event. Over 2,100 operators (both youth and adults) requested and received an award based on the number of YOTA contacts made as of January 19.

Awards that have not yet been claimed can be downloaded at events.ham-yota.com. Additional statistics are also available at events.ham-yota.com. All YOTA Month QSL cards should be requested by OQRS. More information about YOTA in the Americas can be found at YouthOnTheAir.org.





**Rise and Shine!!!
with the
Made it through the Night Gang Weather Net
0530 Mountain Standard Time Daily on the EAARS
System
Weather and
Conversation**

Get a handle on the local weather from your fellow HAM operators
around the EAARS coverage area and get to know them
better.

KC7OMZ - Walt Emeritus Net
Control

W7GSP - Steve Net
Control

K1VM - Keith Weather
Recorder



Radio Contesting - Why should I do it? Is it fun?

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Tighten Up Your Operating Style: Radio contests are all about making radio contacts fast and efficient, so avoid transmitting any unnecessary information. Using Search and Pounce, you'll tune around to find a station calling "CQ Contest" (or "QRZ Contest"). When the station pauses, just say your callsign. If the other station hears you, he'll usually just say your callsign and his contest exchange. Example: "KONR 59 015", assuming signal report followed by a serial number. You respond with "Roger" or "QSL" to indicate you received his information followed by your exchange "59 025" or whatever. Again, the signal report is always 59 in a contest because it's about the contact and not the quality of the signal. Doing anything else will just annoy your fellow testers.

Use Contest Logging Software: Even if you are only operating casually, it is best to use logging software that is setup for that radio contest. A good choice is the N1MM software or N3FJP which handles almost all contests. The logging program will help you keep track of which stations you've worked and warn you when you try to enter a duplicate contact. The program knows about the contest scoring and will compute your score in real time so you know how you are doing. It also makes it easy to submit your contest results after the contest is complete (not required but certainly encouraged).

So, Happy Contesting. It's a lot of fun and very rewarding. It also makes for a fun day to take your GO KIT out and setup. Don't let an HOA stop you from having fun. If you can't operate HF contests due to HOA restrictions, then take your HF equipment out of the HOA zone and set up in a park or go camping with the intentions of operating HF in the field. Have Fun!!!

73, Chris N7JND

Other Club Stuff

RST holds FREE VE testing on the following dates, 7:00 pm at
Biscuits Country Cafe, 7026 E Broadway, Tucson.

2021	July 12
Feb 8	Aug 9
Mar 8	Sep 13
Apr 12	Oct 11
May 10	Nov 8
June 14	Dec 13

Our club in no way competes with EAARS, In fact, many members of the new club are EAARS members as well. The Tortolita Radio Club has no dues, no rules, no monthly meetings, NEVER any repeaters. We focus on spreading the gospel of HF radio with monthly on-air operating events. We began in 2016 with National Parks on the Air and have continued until the virus interrupted, for a total of over 50 events. We have a website: www.tortolita-rc.com We have a groups-io email reflector. We have applied to ARRL for club affiliation. We have been issued a callsign by FCC (KJ7RCX) and have applied for vanity callsign KT7RC. We accept members regardless of affiliation with other clubs but we don't actively solicit new members since no money accrues to a club with no dues. We currently have 45 active members, and I stress ACTIVE members.

73 de W8TK
Tom Kravec

If you live in the Graham or Greenlee County and are interested in a VE Testing session, please feel free to contact the EAARS President, Dave Wells @ 928-965-8327.

**Do you have any club news to share?
It can be posted on this page.
Send your info to Angie - emberfire@cox.net.**

Cooking up Some Magic



Chicken With Sautéed Apples and Mushrooms

Ingredients

3 tbsp. olive oil, divided
1 10-ounce package cremini mushrooms, quartered
Kosher salt and pepper
1 large shallot, finely chopped
2 Gala apples, cut into 1/2-inch-thick wedges
1 tbsp. unsalted butter
4 chicken thighs (about 1 1/2 pounds)
1/2 c. dry white wine
1/2 c. low-sodium chicken broth
6 sprigs thyme, plus more for serving
1/4 c. heavy cream
1 tbsp. Dijon mustard

Courtesy of goodhousekeeping.com



Directions

1. Heat oven to 375°F. Heat 2 tablespoons oil in large oven-safe skillet on medium-high. Add mushrooms and a pinch of salt and cook, tossing occasionally, 5 minutes. Add shallot and cook, stirring occasionally, until mushrooms are golden brown, 2 to 3 minutes; transfer to plate. Add apples and butter to skillet and cook, tossing occasionally, until beginning to turn golden brown, 2 to 3 minutes; transfer to second plate and wipe skillet clean.
2. Return skillet to medium heat. Rub chicken with remaining Tbsp oil, season with $\frac{1}{2}$ tsp each salt and pepper and cook, skin side down first, until browned, 8 to 10 minutes; drain excess fat. Turn chicken skin side up, add wine and cook 1 minute, then add broth and thyme. Return apples to skillet, transfer skillet to oven and bake until chicken is cooked through (165°F on an instant-read thermometer), 7 to 8 minutes.
3. Transfer chicken and apples to plate, discard thyme and return skillet to medium heat. Whisk in cream and mustard, then fold in mushroom mixture and cook until heated through, about 2 minutes. Serve with chicken and apples and additional thyme if desired.

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cook